

0154-2811-2



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
VINCENT BERGER ET AL : EXAMINER: BROCK, II, P.
SERIAL NO: 09/328,391 :
FILED: JUNE 9, 1999 : GROUP ART UNIT: 2815
FOR: QUANTUM WELL DETECTOR :
WITH LAYER FOR THE STORAGE
OF PHOTO-EXCITED ELECTRONS

16/A

2-12-02

T. Flowers

AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

In response to the Office Action dated October 16, 2001, please amend this
application as follows:

IN THE CLAIMS

Please amend Claims 1- 9 and 11 as shown below in clean form. A marked-up copy
of the amended claims is attached.

1. (Amended) An electromagnetic wave detector comprising:
a stack of layers made of III-V semiconductor materials, a conduction band profile of
said materials defining at least one quantum well, said quantum well having at least one first
discrete energy level populated with electrons that are capable of passing to a second energy
level under an absorption of an electromagnetic wave; and
means for counting said electrons in the second energy level,